

20030106.qrp v02_n792.qrl.20030106

Date: Mon, 6 Jan 2003 19:03:09 EST
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2792

QRP-L Digest 2792

Topics covered in this issue include:

- 1) [144157] Re: Wire and ferrite baluns
by "Karl F. Larsen" <k5di@zianet.com>
- 2) [144158] Another OBSERVATION (very long)
by "Alan Kaul, W6RCL" <alan.kaul@worldnet.att.net>
- 3) [144159] Re: Wire and ferrite baluns
by "James R. Duffey" <JamesDuffey@comcast.net>
- 4) [144160] 10 Meters is HOT!
by "Karl F. Larsen" <k5di@zianet.com>
- 5) [144161] Re: [144088] RTTY on 7.044
by Doug Faunt N6TQS +1-510-655-8604 <faunt@panix.com>
- 6) [144162] Re: An observation
by KD5NWA <KD5NWA@cbayona.com>
- 7) [144163] Re: happy dance! (with butterflies)
by psschwarz@kellnet.com
- 8) [144164] HB - Another happy dance.
by Harry Hurst <wa3ptg@comcast.net>
- 9) [144165] Re: OT Another OBSERVATION (very long)
by KD5NWA <KD5NWA@cbayona.com>
- 10) [144166] Re: [144088] RTTY on 7.044
by <sjolin@swbell.net>
- 11) [144167] Re: 10 Meters is HOT!
by Bill ROWLETT <kc4atu@yahoo.com>
- 12) [144168] CQ FP
by Paul Womble <pwomble1@tampabay.rr.com>
- 13) [144169] 19" Rack Mounted Chasis 1.75" high
by w4bld@juno.com
- 14) [144170] Dual Gate MOSFET?
by "Brad Hernlem" <alihernlem@hotmail.com>
- 15) [144171] Need Source for 1.75" rack panel with attached chasis
by w4bld@juno.com
- 16) [144172] Re: Dual Gate MOSFET?
by KD5NWA <KD5NWA@cbayona.com>
- 17) [144173] WTB Mizuho hand held
by "John" <jdorson@worldshare.net>
- 18) [144174] K2s out in force tonight...
by "Bill, N4QA" <n4qa@hotmail.com>
- 19) [144175] Re: CQ FP

- by "Juan Ferrari" <puntrad@usa.net>
- 20) [144176] Manhattan board neatness
by "Chuck Adams, K7Q0" <k7qo@earthlink.net>
- 21) [144177] The the [30m] good times ROLL!
by "Rod N0RC" <rod@n0rc.us>
- 22) [144178] Re: The the [30m] good times ROLL!
by "Rod N0RC" <rod@n0rc.us>
- 23) [144179] Re:OT:Wanted:Win95 on Floppy Disks---Results!!!!!!
by "John Paul Dooley" <portscom@hotmail.com>
- 24) [144180] Notes on the RFD Antenna
by Monty N5FC <n5fc@io.com>
- 25) [144181] Noisy Antennas/DEAF VERTICAL?
by ARDUJENSKI@aol.com
- 26) [144182] Maybe an endfed 132 ft antenna?
by ARDUJENSKI@aol.com
- 27) [144183] Re: 10 Meters is HOT!
by "Francis Callahan" <colcal@srv.net>
- 28) [144184] Spartan Sprint Tonight!
by "John Huffman" <hjohnc@core.com>
- 29) [144185] Fox: KV2X Fox Final Log
by jennings@eznet.net
- 30) [144186] Re: Noisy Antennas/DEAF VERTICAL?
by "dan wanchic" <wa8vzq@cloudnet.com>
- 31) [144187] Re: 10 Meters is HOT!
by "Karl F. Larsen" <k5di@zianet.com>
- 32) [144188] Semi-Happy Dance
by "Jim Stamper" <jstamper@shentel.net>
- 33) [144189] Re: [OT] You've Got ... QSLs (Part 2) or QSL Via Buro (long)
by palmer_t <ThomasPalmer@colliergov.net>
- 34) [144190] IC-706 Power Cable
by "res075cz" <res075cz@gte.net>
- 35) [144191] Re: Loop Question
by "larry hess" <hessls@csi.com>
- 36) [144192] Re: VFO pulling
by "Ian Wilson" <ianmwilson@earthlink.net>
- 37) [144193] RE: Maybe an endfed 132 ft antenna?
by Mark Schoonover <schoon@amgt.com>
- 38) [144194] Nor'Easter Question
by "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
- 39) [144195] RE: Antenna question; leakage; binocular cores
by "Bob Tellefsen" <n6wg@earthlink.net>
- 40) [144196] recieve only antenna
by "pschweit" <pschweit@mninter.net>
- 41) [144197] RMFF: The Five Million-Point QSO
by Lloyd Lachow <llachow@yahoo.com>
- 42) [144198] Re: RMFF: The Five Million-Point QSO
by W2AGN <w2agn@w2agn.net>
- 43) [144199] Re: Maybe an endfed 132 ft antenna?

- by "Bob Schreibmaier" <k3ph@ptd.net>
- 44) [144200] Re: Nor'Easter Question
by Jim Gelbort <jamesgelbort@worldnet.att.net>
- 45) [144201] Trip to WI
by "Trevor Jacobs" <kg6cyn@earthlink.net>
- 46) [144202] New book by W7ZOI, KK7B, and W7PUA
by "Bill Kelsey - N8ET - Kanga US" <kanga@bright.net>
- 47) [144203] IL Falls - All Counties QRP
by Larry Cahoon <lejek@erols.com>
- 48) [144204] Re: Semi-Happy Dance
by "Jim Stamper" <jstamper@shentel.net>
- 49) [144205] Re: recieve only antenna
by John Farler <jfarler@peoplepc.com>
- 50) [144206] 1SV149
by "Richard Johnson" <richard_johnson@credence.com>
- 51) [144207] Fox - Winter Fox Hunt Teams Results.
by Bruce Rattray <rattray@gpfn.sk.ca>
- 52) [144208] Any Cushcraft AWW3 Users Out there
by "Mike Duke, K5XU" <k5xu@jam.rr.com>
- 53) [144209] loop feed change
by "Stuart Rohre" <rohre@arlut.utexas.edu>
- 54) [144210] Re: Maybe an endfed 132 ft antenna?
by "Bob Schreibmaier" <k3ph@ptd.net>

Date: Sun, 5 Jan 2003 17:08:01 -0700 (MST)
From: "Karl F. Larsen" <k5di@zianet.com>
To: Bill Coleman <aa4lr@arrl.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [144157] Re: Wire and ferrite baluns
Message-ID: <Pine.LNX.4.44.0301051703370.2875-1000000@bucket.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Bill this issue is dead. LBJ now ships with a Ferrite toroid and they work fine with little or no loss. MFJ uses ferrite toroids. So I'm not going to open it up again.

On Sun, 5 Jan 2003, Bill Coleman wrote:

> Sorry again for the long distance reply. It's been a hell of a fall, and
> I'm just now getting caught up on old e-mail.
>
> On 9/28/02 11:38 AM, Karl F. Larsen at k5di@zianet.com wrote:
>

> >Bill your trying to tell me that I do not understand and neither does
> >MFJ.

--

- Karl Larsen k5di Las Cruces,NM Az ScQRPions -

Date: Sun, 5 Jan 2003 16:09:24 -0800
From: "Alan Kaul, W6RCL" <alan.kaul@worldnet.att.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [144158] Another OBSERVATION (very long)
Message-ID: <003601c2b517\$e22bed00\$f840cd18@charterpipeline.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 8bit

This is long delete now if you re already bored by this discussion.

I found it difficult to let a few QRP-List OBSERVATIONS pass by without adding more input to the clutter already on the list.

With an hour to kill Sunday 1/5/2003, I thought a little analysis would be in order. Please NOTE: I filter out all messages with the word FOX in the subject line, so FOX data is not including in this finding.

I had 1651 posts on hand (available to analyze) dating from 12/12/2002-to-01/05/2003.

Of the 1651 posts, there were 361 different writers who contributed e-mails.

Of the 361 contributors, 35 individuals posted 10-times or more each.

The 35 who posted 10-times or more each, posted a total of 669 of the 1651 posts . i.e. about 40 percent.

The 35 who posted 10-times or more each, represent 9.7 percent of the total list members who posted.

Therefore, fewer than 10 percent of the list contributors were responsible for more than 40 percent of the messages on the list posted during that time frame (not counting "FOX" messages).

Incidentally, only 45 of the 1651 total messages (< 3 %) were identified as OT or Off Topic.

I make no claims about the substance or the quality of the original postings. It is up to the reader to decide what is INFORMATION and what is

CHAFF!

Here are the data upon which this e-mail is based (sorted by Author and Total posts during the period)... note-the identifications are mine, not necessarily the author's e-mail address or signature.

W2AGN 43
KLARSEN 36
BRIAN SHORT 30
TRASK 30
N4QA 28
YETSKO 27
KD5NWA 26
DUFFEY 25
ALEX 24
HINERMAN 22
W5YR 22
CARPENTER 21
LACOSTA 20
N0RC 19
JOE MARTIN 19
KL7FDQ 18
KKANALZ 18
PHINIZY 18
ROWLETT 17
CZUHAJEWSKI 17
LESNICK 16
W1RFI 15
K0EVZ 15
WEBER 15
POLITYKA 15
WA8BXN 13
TANTON 13
HENDRICKS 12
AE5X 12
W8DIZ 11
IAMSF5 11
CARTWRIGHT 11
DAVE EK 10
N7JI 10
GINGELL 10

TOTAL = 669

((I make no claims about the accuracy of this data, about incidental deletions of authors from my inbox, etc. The results reported here are based on material found in my IN BOX on January 5th, 2003!!!!!!)))

Incidentally -- during this same period, I posted 7-items to the list (i.e. 0.42 percent of the total items).

Happy New year, best 72/73 de alan

Alan Kaul, W6RCL, LaCanada, CA
w6rcl@amsat.org
<http://home.att.net/~alan.kaul/index.html>

Date: Sun, 05 Jan 2003 17:10:35 -0700
From: "James R. Duffey" <JamesDuffey@comcast.net>
To: qrp-l@lehigh.edu, aa4lr@arrl.net
Subject: [144159] Re: Wire and ferrite baluns
Message-ID: <BA3E178B.22B14%JamesDuffey@comcast.net>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Bill - I thought we hashed this all out 3 months ago. :^)

If you are that far behind in QRP-L e-mails and reply to everything that interests you, a Sisyphean task awaits you. :^) Good luck.

Just to avoid some further propagation of misconceptions:

" A 4:1 current balun requires two cores."

Sevick, in his 4:1 balun CQ article and chapter in his book published by CQ, shows a clever implementation of a 4:1 current balun with a single core. One set of windings is wound clockwise on one half of the toroid, and the other set is wound counterclockwise on the other half of the toroid. The usual end connections are made. While this doubles core dissipation for common mode currents, it should be no problem on QRP, or even moderate power levels (100 watts) with antennas that are reasonably well balanced. I suspect that this could also be done on a single ferrite rod, although that does open another can of worms. Call me Pandora.

Also, for what it is worth, I recall that the Ruthroff baluns with compensation windings do a much better job at balancing antenna currents than do the usual 1:1 and 4:1 voltage baluns that are in the Handbook. Not as good as a current balun, but reasonable none the less. Sevick addresses these designs, as does Ruthroff in his original (1959?) wideband transformer article. - Dr. Megacycle KK6MC/5

--

James R. Duffey KK6MC/5

Cedar Crest, NM DM65

Date: Sun, 5 Jan 2003 17:19:54 -0700 (MST)
From: "Karl F. Larsen" <k5di@zianet.com>
To: qrp-1@lehigh.edu
Subject: [144160] 10 Meters is HOT!
Message-ID: <Pine.LNX.4.44.0301051714280.2875-100000@bucket.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I have been having fun working DX and states on QRP SSB. Me and my FT-817 and old TH6DXX beam up 60 feet have been kicking butts! I worked the LU1 because he asked all the KW stations to stop and only QRP stations call. There were 3 of us.

Worked a few new states in my quest for WAS/QRP. It looks like 10 meters will be good for at least another day. Here are the new numbers:

SFI:148 frm 143 A:6 frm 12 K:2 (18 nT) 2100 05 Jan

As you can see the SFI (Flux) is moving up and both the A and K are going down. A Fox Hunt Monday would sure be fun!

--

- Karl Larsen k5di Las Cruces,NM Az ScQRPions -

Date: Sun, 5 Jan 2003 19:19:28 -0500 (EST)
From: Doug Faunt N6TQS +1-510-655-8604 <faunt@panix.com>
To: flesnick@tbaytel.net
Cc: fpqrp@egroups.com, qrp-1@Lehigh.EDU
Subject: [144161] Re: [144088] RTTY on 7.044
Message-ID: <200301060019.h060JSs04455@panix3.panix.com>

Date: Sat, 04 Jan 2003 22:41:13 -0500
From: Fred Lesnick <flesnick@tbaytel.net>

Well gang, I can hear pigs calling CQ, but N2FF in New York, is just too loud, and he is sitting exactly on the frequency.....

Fred
0340 z
FP101.....

Frank should know better. This was a domestic contest, and if the EU DX want to get into it, they should move up to or towards our RTTY band plan space. The JA's have very little chance on 40 in this one, given the timing.

73, doug

who just made 501 Q's in RTTY RU.

Date: Sun, 05 Jan 2003 18:19:49 -0600
From: KD5NWA <KD5NWA@cbayona.com>
To: w2agn@w2agn.net,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [144162] Re: An observation
Message-ID: <5.2.0.9.0.20030105181646.00a92bd0@pop.cbayona.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

If you can't detect my extreme sarcasm, then you also need to get a life also.

Like really I'm interested in a statistical analysis of the post here, NOT!

At 04:05 PM 1/5/2003, W2AGN wrote:

>On 5 Jan 2003 at 15:31, KD5NWA wrote:

>

> > Or maybe, persons who write "trashy" post like to do it quite often. Why

> > don't run an analysis of the data and try to find the correlation

> factor of

> > the data to different post theories. Be sure to let us know what your

>data

> > reveals, I would personally like to know for a fact, statistically who

>are

> > the 6Sigma posters of "good" email.

> >

> >

>

>To the original observer, and the two lengthy follow up posters I offer

>three words;

>

>Get A Life!

>

>
>I am in mind of a picture of Freud making an obscene gesture with the
>caption, "Analyze This."
>
>P.S. Since "you know who" wasn't one of the posters, my resolution is
>still good.
>
>
>---
>+---+---+---+---+ John L. Sielke
>|W||2||A||G||N| http://www.w2agn.net [UPDATED]
>+---+---+---+---+ Ex-K3HLU,TF2WKT,W7JEF,W4MPC,N4JS

Cecil
KD5NWA

Date: Mon, 06 Jan 2003 00:16:33 GMT
From: psschwarz@kellnet.com
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [144163] Re: happy dance! (with butterflies)
Message-ID: <20030106001633.29415.qmail@mail.kellnet.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed; charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

David Hinerman writes:

> Folks,
>
> Well, I just made my first HF contact in about 10 years, with an
> incredibly patient op in Ohio who was willing to put up with my lousy
> fist on 30M. (Thanks Tim!) I was never much good at Morse, having just
> barely passed the code test for General ... but it was a big hurdle
>
> Dave

The more I read this list the more excited I am getting...

Has anyone any experience with an Icom 718 using the hand mic as the
electronic keyer? If so, which key (up or down) is dit and which is dah? May
an explanation of what key ratio is be thrown to me?

Thanks a bunch group!

Patrick...KB8RTZ...

Date: Mon, 06 Jan 2003 00:28:34 +0000
From: Harry Hurst <wa3ptg@comcast.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [144164] HB - Another happy dance.
Message-ID: <001e01c2b51a\$8c7489a0\$0200a8c0@daisy>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

It's snowing in the lower counties. I resisted the urge to go out to work on the antenna, instead I pulled out one of my failed homebrew projects. It's an ugly-style/manhattan 20 meter NN1G type receiver that drifts like crazy. I had given up on it. I noticed that the vfo was affected when I changed the volume setting on the LM386. I added a 100 uf cap across the + line where the LM386 connects. Would you believe the drifting stopped? The + rail runs down the middle of the board. the vfo & NE602 regulators connect at one end, the LM386 at the other, and in the middle there is a 470 UF cap to ground. I'm guessing the 470 uf cap is bad. But could it be the length of the + rail, or the distance between the 470 uf bypass cap and the LM386?

I'm going to pull the shield off the vfo and have another look at it. With a little more tinkering, it'll be QSO-ready. It will be fun to work some Rock Mites on 20.

72
Hap, WA3PTG
Wilmington DE

Date: Sun, 05 Jan 2003 18:40:04 -0600
From: KD5NWA <KD5NWA@cbayona.com>
To: alan.kaul@worldnet.att.net,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [144165] Re: OT Another OBSERVATION (very long)
Message-ID: <5.2.0.9.0.20030105182639.00a821a0@pop.cbayona.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Hey, there is some pretty good company here, will this post move me up a

notch? See what happens when your laid off from work, and you have nothing better to do, you go bad. I hope you notice that I changed the subject line to make somebody somewhere happy.

At 06:09 PM 1/5/2003, Alan Kaul, W6RCL wrote:

>This is long delete now if you re already bored by this discussion.

>

>I found it difficult to let a few QRP-List OBSERVATIONS pass by without
>adding more input to the clutter already on the list.

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>of the 1651 posts . i.e. about 40 percent.

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>

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>-----

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>Total posts during the period)... note-the identifications are mine, not
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>

>W2AGN 43

>KLARSEN 36

>BRIAN SHORT 30

>TRASK 30

>N4QA 28

>YETSKO 27

>KD5NWA 26

>DUFFEY 25

>ALEX 24

>HINERMAN 22
>W5YR 22
>CARPENTER 21
>LACOSTA 20
>NØRC 19
>JOE MARTIN 19
>KL7FDQ 18
>KKANALZ 18
>PHINIZY 18
>ROWLETT 17
>CZUHAJEWSKI 17
>LESNICK 16
>W1RFI 15
>KØEVZ 15
>WEBER 15
>POLITYKA 15
>WA8BXN 13
>TANTON 13
>HENDRICKS 12
>AE5X 12
>W8DIZ 11
>IAMSF5 11
>CARTWRIGHT 11
>DAVE EK 10
>N7JI 10
>GINGELL 10
>-----
>TOTAL = 669
>
>(((I make no claims about the accuracy of this data, about incidental
>deletions of authors from my inbox, etc. The results reported here are
>based on material found in my IN BOX on January 5th, 2003!!!!!!)))
>
>Incidentally -- during this same period, I posted 7-items to the list (i.e.
>0.42 percent of the total items).
>
>Happy New year, best 72/73 de alan
>
>Alan Kaul, W6RCL, LaCanada, CA
>w6rcl@amsat.org
><http://home.att.net/~alan.kaul/index.html>

Cecil
KD5NWA

Date: Sun, 5 Jan 2003 18:46:48 -0600
From: <sjolin@swbell.net>
To: <faunt@panix.com>, "Qrp-l Reflector" <qrp-l@Lehigh.EDU>
Subject: [144166] Re: [144088] RTTY on 7.044
Message-ID: <0f1301c2b51d\$18cdba50\$78d1fea9@DaveSjolin>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Who said the contest was domestic. Each Dxcc country is a multiplier and each qso counts for points. Eu rtty ops cant move up or they would be in the EU phone band. Similarly they cant move down or they would be in the CW band.

73 de Dave, N0IT

----- Original Message -----

From: "Doug Faunt N6TQS +1-510-655-8604" <faunt@panix.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Sunday, January 05, 2003 6:19 PM
Subject: Re: [144088] RTTY on 7.044

> Date: Sat, 04 Jan 2003 22:41:13 -0500
> From: Fred Lesnick <flesnick@tbaytel.net>
>
> Well gang, I can hear pigs calling CQ, but N2FF in New York, is just
too
> loud, and he is sitting exactly on the frequency.....
>
> Fred
> 0340 z
> FP101.....
>
> Frank should know better. This was a domestic contest, and if the EU
> DX want to get into it, they should move up to or towards our RTTY
> band plan space. The JA's have very little chance on 40 in this one,
> given the timing.
>
> 73, doug
>
> who just made 501 Q's in RTTY RU.
>

Date: Sun, 5 Jan 2003 17:11:02 -0800 (PST)
From: Bill ROWLETT <kc4atu@yahoo.com>
To: k5di@zianet.com,
Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [144167] Re: 10 Meters is HOT!
Message-ID: <20030106011102.99982.qmail@web14207.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Not bad Karl, but the TH6 at 60 feet does help. Have
over 100 countries on 10 meters with 3 to 5 watts out
to the indoor 20 meter dipole feed with 300ohm. So, on
10, it does not take much.

73 and may you work all heard.

Bill, kc4atu

Do you Yahoo!?
Yahoo! Mail Plus - Powerful. Affordable. Sign up now.
<http://mailplus.yahoo.com>

Date: Sun, 05 Jan 2003 20:24:12 -0500
From: Paul Womble <pwomble1@tampabay.rr.com>
To: FP List <fpqrp-l@mpna.com>, QRP-L <qrp-l@Lehigh.EDU>
Subject: [144168] CQ FP
Message-ID: <3E18DABC.4CEE0825@tampabay.rr.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I'm on 7.047 looking for Flying Pig's. Can qsy to other bands as
needed.

73
Paul K4FB
FP # 124

Date: Mon, 6 Jan 2003 01:19:27 GMT
From: w4bld@juno.com
To: qrp-l@lehigh.edu

Subject: [144169] 19" Rack Mounted Chasis 1.75" high
Message-ID: <20030105.201959.5926.741189@webmail6.nyc.unttd.com>

Hello All - I am in need of a 1.75" rack panel with an attached case in order to build a switching device for use in my shack. I remember that someone made these item and advertised them in QST, 73, or CQ. The problem is that I can't find that advertisement at this time. If you have access to this advertisement or know where I can purchase such an item at a price less than the national debt, please reply to me directly. I will appreciate your effort. Many Thanks, Bob

rbkerby@ntelos.com -or- w4bld@juno.com

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Visit www.juno.com

Date: Mon, 06 Jan 2003 01:25:57 +0000
From: "Brad Hernlem" <alihernlem@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [144170] Dual Gate MOSFET?
Message-ID: <F60Djnt61tqeaVRMPjc0001144b@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

I picked up some SMD parts at the swapmeet today. One of the finds was a bunch of parts marked with the TEMIC label and ID'd as S594T.

Anyone have any experience using these?

Am I correct that this is some kind of dual gate MOSFET with biasing resistors built in?

TNX,

Brad KG6IOE

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Date: Mon, 6 Jan 2003 01:35:22 GMT
From: w4bld@juno.com
To: qrp-1@Lehigh.edu
Subject: [144171] Need Source for 1.75" rack panel with attached chassis
Message-ID: <20030105.203547.2439.445120@webmail10.nyc.unttd.com>

Hello All - I need to build a switch panel for use in my shack and remember that someone made such an animal and advertised it for sale in QST, 73, or CQ. If you know a source for such an item at a price somewhat less than the national debt, please contact directly. Many Thanks, Bob

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Date: Sun, 05 Jan 2003 19:38:11 -0600
From: KD5NWA <KD5NWA@cbayona.com>
To: alihernlem@hotmail.com,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [144172] Re: Dual Gate MOSFET?
Message-ID: <5.2.0.9.0.20030105193341.00a89260@pop.cbayona.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Is it a four pin device? If it is take a look at the following link. It could be a very handy device.

<<http://www.vishay.com/document/85048/85048.pdf>>

At 07:25 PM 1/5/2003, Brad Hernlem wrote:

>I picked up some SMD parts at the swapmeet today. One of the finds was a
>bunch of parts marked with the TEMIC label and ID'd as S594T.

>

>Anyone have any experience using these?

>

>Am I correct that this is some kind of dual gate MOSFET with biasing
>resistors built in?

>

>TNX,
>
>Brad KG6IOE
>
>
>
>

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><http://join.msn.com/?page=features/virus>

Cecil
KD5NWA

Date: Sun, 5 Jan 2003 20:51:26 -0500
From: "John" <jdorson@worldshare.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [144173] WTB Mizuho hand held
Message-ID: <000d01c2b526\$23ff6500\$439b8b41@ATHOME>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Looking for 15 meter unit. If you have one please e-mail direct.

Thanks.
John K2JHU...
South Island Real Estate
jdorson@worldshare.net

Date: Sun, 05 Jan 2003 22:00:46 -0500
From: "Bill, N4QA" <n4qa@hotmail.com>
To: qrp-l@Lehigh.EDU
Subject: [144174] K2s out in force tonight...
Message-ID: <BAY1-F213N9KAy4MoSn000027a6@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Wow.
Everybody I worked tonight with the DSW-40 on 80 meters was running a K2.
N4HAY Dick in Raleigh, NC
WB4X Brent in Stoneville, NC
W8FV Pat in Granville, OH

All had great sigs...even with the wild QSB that exists on 80 tonight.

73.

Bill, N4QA

STOP MORE SPAM with the new MSN 8 and get 2 months FREE*
<http://join.msn.com/?page=features/junkmail>

Date: Mon, 6 Jan 2003 03:01:27 -0500
From: "Juan Ferrari" <puntrad@usa.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [144175] Re: CQ FP
Message-ID: <002301c2b559\$d262c3c0\$8f319d40@puntana.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

A little late but I will be now and for one hour looking for FPs around
7044.

May also QSY on request.

72

Juan - KG4FSN

Date: Sun, 05 Jan 2003 19:04:08 -0800
From: "Chuck Adams, K7Q0" <k7qo@earthlink.net>
To: qrp-1@lehigh.edu
Subject: [144176] Manhattan board neatness
Message-ID: <5.1.1.6.0.20030105185312.00b310d0@pop.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Gang,

I have been experimenting on this and have had good results, so I'd

like some others to try this and let me know how it works.

Take the blank board material and clean it your usual way. I am now using 3M Scotchbrite and then using Tarn-X as a final cleaning.

Then without getting dust, fingerprints, etc. on the board material spray it with a LIGHT coat of clear Krylon or whatever. I'll try the <\$1 clear from Wal-Mart some time this week when I get a chance to get to town. And I mean a very very light coating. Just enough to cover the board in every spot but you don't want it very thick.

The coating has to be light as you can get it. I haven't tried a thick coat and I don't want to....

Good News: The board will stay crisp and bright and your finger prints will not oxidize the material while you are working on what ever. For ground soldering points I find that the heat of a 25W Weller Iron (the one you get at Home Depot for less than \$15) is sufficient to melt the coating and make a good solder connection.

Bad News: When you go to pop-a-pad if you get it in the wrong place. A very small area of the clear coating will also pop loose.

I'll try to get some pictures on the web page on Thursday.

FYI

OT --- I bought a 1.7GHz Intel Celeron board on Wednesday. Running some FORTRAN programs under SuSE 8.1 Pro I have found that the programs run 30% slower on the Celeron than they do on an AMD Duron system running 1.2GHz. Offline --- email me if you can help run this problem down. Same memory configuration and I can give you model numbers etc. I got the systems at Fry's Electronics.... I can't see where there should be that much difference and I do want to get some work done on SPICE and NEC2 in double precision.....

Thanks.

Chuck Adams, K7QO
<http://www.qsl.net/k7qo>

Moving to Arizona? ---- Please bring your own water.

Date: Sun, 5 Jan 2003 20:28:48 -0700
From: "Rod N0RC" <rod@n0rc.us>
To: <elecraft@mailman.qth.net>, "qrp-1" <qrp-1@Lehigh.EDU>
Subject: [144177] The the [30m] good times ROLL!
Message-ID: <005601c2b533\$ba3525c0\$6401a8c0@greyrock>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

In the interest of generating activity on 30m, I'm spotting my self.

It is 0325z I'll be on 30 10116 +/- QRM by 0340z. I am especially looking for K2 contacts for Elecraft CC. But I'll take anything I can get. :-)

And, as long as I'm making a pig of myself "oo" I'll be running 8-9W!!!
:-0 (I'll crank it down if you need CQ 2XQRP for paper)

73, Rod N0RC

Date: Sun, 5 Jan 2003 21:39:19 -0700
From: "Rod N0RC" <rod@n0rc.us>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>,
 <elecraft@mailman.qth.net>
Cc: "Paul Womble" <pwomble1@tampabay.rr.com>,
 "Tim Pettibone" <k5oi@cox.net>, "Sam Binkley" <sbinkley1@cox.net>,
Subject: [144178] Re: The the [30m] good times ROLL!
Message-ID: <007a01c2b53d\$947fef40\$6401a8c0@greyrock>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Now QRT. 1 QSO with a local on 10114.5. Then called CQ on 10116.5 from 0408-0430z, no takers.

73, Rod N0RC
Elecraft CC: 0 of 100, started 05-Jan-2003

----- Original Message -----
From: "Rod N0RC" <rod@n0rc.us>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Sunday, January 05, 2003 8:28 PM
Subject: The the [30m] good times ROLL!

> In the interest of generating activity on 30m, I'm spotting my self.
>

Date: Sun, 5 Jan 2003 21:25:10 -0800
From: "John Paul Dooley" <portscom@hotmail.com>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [144179] Re:OT:Wanted:Win95 on Floppy Disks---Results!!!!!!
Message-ID: <0E63WGfLOG9ep4Tau1g0000850a@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 8bit

Received numerous replies and offers on this subject and have found several viable alternatives that could prove to work:

1. Use the old DOS version of LapLink between the laptop and a host machine. Here's a site that has it:
<http://www.powerload.fsnet.co.uk/msdos.htm>
2. If the laptop has a PCMCIA slot, you can use either a PC Card hard drive or a digital camera Flash card with the appropriate adapter to move the files.
3. make your own from the CDROM... IIRC, there's a directory called CABS, that contains all the cabinett files. Copy each one to a floppy, noting the number in the filename. That's your disk number...If you gave a machine already running 95 - just create an emergency boot disk to boot the system...
4. The suggestion for using a Zip drive (parallel port type) is the best one on the List so far. The Zip drivers can be included on a bootable floppy, and the whole CD will fit on a 100 MB Zip disk with room to spare. Basic Zip drivers that fit on a floppy are available directly from Iomega.

I plan to experiment with a few of these and see what happens, then report back to the list on my experiences. I've also been offered a set for the cost of shipping!!! These I can use if all else fails. Just my two cents worth about 95: It's been referred to as "abandonware" in tighter circles.

Thanks for the resources listmembers, 73
John W6ZIP es HS ZEH
Victorville, Ca.

>>>>Looking for a set of Win95 on Floppy. If you are ready to part with your set, name your price, including shipping. I have a nice laptop that I run TRX Manager and Digipan as well as a few other hamradio related (and QRP!!) softwares on.<<<<<<<

Date: Mon, 06 Jan 2003 01:30:27 -0600
From: Monty N5FC <n5fc@io.com>
To: AQRPE@groups.com, qrp-l@Lehigh.edu
Subject: [144180] Notes on the RFD Antenna
Message-ID: <5.1.0.14.1.20030106012837.026f9220@mail.io.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Hi Gang!

I've made some notes on my experiments with the RFD antenna (so called "end-fed dipole" or "Resonant Feedline Dipole"), including construction and pictures. As a result of my experiments, I can't say that I recommend the antenna, but you'll have to go to the web page to see why. I Hope someone finds the information useful, and if you have suggestions that will make it work better, please offer them here on the list, so we may all benefit.

<http://www.io.com/~n5fc/rfd.htm>

73,
monty N5FC

Monty Northrup, N5FC
Austin, Texas
e-mail: n5fc@io.com
web page (ham radio): <http://www.io.com/~n5fc>
web page (home): <http://www.io.com/~maddog>

Date: Mon, 6 Jan 2003 04:09:43 EST
From: ARDUJENSKI@aol.com
To: qrp-l@lehigh.edu
Subject: [144181] Noisy Antennas/DEAF VERTICAL?

Message-ID: <d.66b5c7c.2b4aa1d7@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

The recent thread got me thinking. The loops is considered quiet...why? Can it be that there is no static build up because it bleeds off or is it because of the lobe angles in that typically noise is either coming from high angle locally or flow angle from over the horizon?

One thing that I don't see mentioned much is the use of a bleeder resistor say 1meg-ohm between the two legs of a dipole. it seems it would help tame noise here.

What about doing same for a vertical? A bleeder resister across base of vertical to grounds? I have never seen this mentioned before.

If you run an Inverted-L you will note because it receives both high and low angle it is generally noisier than most antennas but a good receiving antenna.

Regarding the question posed earlier on the DEAF VERTICAL there was not enough to really be able to comment:

---what type of vertical?
---what band(s)?
---radial system?
---are antenna connections free of corrosion?

If you had poor ground system or very high SWR on the feed or poor connections these all affect the performance along with just local noise and static

Also I have found on verticals that using a W2DU current balun at the base of the vertical helps in both transmit and receive at least in my installation. for a discussion on this see RADIO WORKS at <http://www.radioworks.com/nliinfo.html>

Dave Gauding and his series of short verticals should be evidence enough that verticals, even short ones, perform quite well.

Alan KB7MBI in Woodinville, WA
FISTS 5702 Proud member of ARRL

--- --- --- --- DIT DIT

Date: Mon, 6 Jan 2003 04:21:43 EST
From: ARDUJENSKI@aol.com

To: qrp-1@lehigh.edu
Subject: [144182] Maybe an endfed 132 ft antenna?
Message-ID: <3c.2a0839ad.2b4aa4a7@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

If you want to try a low loss inexpensive antenna have you thought about the advantages of an end-fed 132ft wire? You can run it:

---horizontal
---inverted-L
---inverted-U or vee

What is magical about this length is that is is close to multiple of $1/2w_l$ on most bands with a resulting impedance of about 1000 ohms on all bands (80m and up) making the ground losses relatively low.

Moxon addresses this in his book HF ANTENNAS FOR ALL LOCATIONS. Granted in some situation you can have RF back at the rig but that generally occurs at higher powers and on the higher bands (12 and 10m).

Just some food for thought....

Alan KB7MBI in Woodinville, WA
FISTS 5702 Proud member of ARRL
--- --- --- --- DIT DIT

Date: Mon, 6 Jan 2003 03:53:33 -0700
From: "Francis Callahan" <colcal@srv.net>
To: <kc4atu@yahoo.com>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [144183] Re: 10 Meters is HOT!
Message-ID: <000701c2b571\$dcb0c760\$23ca1341@callahan>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

10 meters is hot but so is 17 in the late afternoons here in Idaho with the 817 and a 130 end fed wire at 20 feet have been working all over the states and into Britian and Belgium also Japan a few times . Just amazes me what 5 watts will do especially on SSB the HFpack group is usually on 18.157.5 and a lot of action there 72 Cal KF7ET

----- Original Message -----
From: "Bill ROWLETT" <kc4atu@yahoo.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Sunday, January 05, 2003 6:11 PM
Subject: Re: 10 Meters is HOT!

> Not bad Karl, but the TH6 at 60 feet does help. Have
> over 100 countries on 10 meters with 3 to 5 watts out
> to the indoor 20 meter dipole feed with 300ohm. So, on
> 10, it does not take much.
>
> 73 and may you work all heard.
>
> Bill, kc4atu
>
> -----
> Do you Yahoo!?
> Yahoo! Mail Plus - Powerful. Affordable. Sign up now.
> <http://mailplus.yahoo.com>

Date: Mon, 6 Jan 2003 06:08:14 -0500
From: "John Huffman" <hjohnc@core.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [144184] Spartan Sprint Tonight!
Message-ID: <007501c2b574\$eb1c4f10\$3a3d5dd8@jhuffman1t>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Tonight is the January Spartan Sprint. Two hours starting at 9 pm Eastern, 8 pm Central, 7 pm Mountain, 6 pm Pacific.

Exchange - Report, State (Province), Power as in: 559 MI 5W

Enjoy, and get your logs in by noon Wednesday. Results will be posted Thursday.

Fill out the Autolog at www.natworld.com/ars/ss_log.html

An updated free logging program for the Sprints is available for Windows computers at
http://www.natworld.com/ars/pages/spartan_sprints/ss_logger.html

Steve, N90H, has written a plug-in for WriteLog to add ARS Spartan Sprint support that can be downloaded from Steve's website: <http://wlmods.n9oh.com>

73 de K8HJ
John
Contest Manager
Adventure Radio Society

Date: Mon, 06 Jan 2003 07:32:01 -0500
From: jennings@eznet.net
To: qrp-1@lehigh.edu
Subject: [144185] Fox: KV2X Fox Final Log
Message-ID: <3E1930F1.29713.4A245D1@localhost>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

Hounds:

I haven't heard from anybody in a day or so. Guess the log
is correct now. Below please find my final log.

Thanks for all and it was great being a fox!

GL to all during the rest of the hunt.

73

Tom kv2x

Time	Call	RST	SPC	Name	PWR
201	W5TB	559	TX	DOC	5W
201	WA9TZE	559	WI	JIM	5W
204	KK5LD	559	TX	DAN	5W
204	N3BJ	559	VA	ALAN	5W
205	N0UR	579	MN	JIM	5W
206	W9XU	559	WI	LON	5W
207	K8HJ	559	MI	JOHN	5W
209	WE9K	599	WI	GLENN	5W
210	W5YR	559	TX	GEORGE	5W
211	N4ROA	559	VA	DAN	5W
212	K0EVZ	559	ND	DOC	5W
213	K5AIC	559	MS	HERB	5W
213	W0CH	559	MO	DAVE	5W
214	K9DC	559	IN	DAVE	5W
215	K4BYF	559	FL	JACK	3W
216	N0WX	579	MN	MIKE	5W
217	K5SR	579	TX	DALE	5W
218	K0PC	559	MN	PAT	5W
221	K3PH	559	PA	BOB	5W
223	K3ESE	559	MD	LLOYD	5W
225	N5ZE	559	TX	LEW	5W

226	K5ZTY	559	TX	BILL	5W	
227	K4ADI	559	SC	FRANK		5W
228	K2ZN 559	NY	AL	5W		
230	K4FB 559	FL	PAUL	5W		
232	W5USJ	559	TX	CHUCK		5W
233	KR5C 559	TX	GEORGE		5W	
235	K4GT 559	GA	JIM	5W		
235	WS4S 559	TN	CONARD		5W	
237	K40AH	559	GA	GAREY		5W
238	AA50 559	VA	VERN	5W		
240	VE6EX	559	AB	DAN	5W	
241	K5EOA	559	KA	WAYNE		5W
242	WB4X 559	NC	BRENT		5W	
243	AF4LQ	559	KY	MIKE	5W	
244	AB9CA	559	AL	DAVE	5W	
247	AC5JH	559	OK	TOM	5W	
248	AC7A 559	AZ	TOM	5W		
249	AJ4AY	559	AL	JAY	5W	
252	W5KDJ	559	TX	WAYNE		700MW
254	N1TP 559	FL	TOM	5W		
256	N5EBD	599	TX	KEN	5W	
256	N7XY 559	WA	BOB	5W		
259	KC9LC	559	VA	RANDY		5W
301	AG0T 559	ND	TODD	4W		
304	AB5XQ	559	AR	BILL	5W	
307	KQ5U 559	TX	TERRY		5W	
309	K5DW 559	TX	DON	5W		
312	WD7Z 559	NM	DAVE	5W		
313	K5DI 559	NM	KARL	5W		
314	NV4V 559	KY	PETE	5W		
316	KD5CMN	559	TX	MIKE	5W	
319	KR0U 339	CO	TIM	5W		
324	AF4PP	559	GA	CHUCK		5W
328	N6LIF	559	TX	MARTIN		5W
329	KI0II	559	CO	RON	5W	
331	KB7WW	559	OR	ART	5W	
332	K5FSE	559	GA	JACK	5W	
333	N2WW 559	CO	LARRY		5W	
335	NQ7X 559	AZ	FLOYD		5W	
338	N1FN 559	CO	ET	5W		
340	K5OI 559	OK	TIM	5W		
345	K5JHP	559	TX	BILL	5W	
346	W0UFO	559	MN	MERT	5W	
400	N0TK 559	FOX	DAN	5W		
400	KV2X 559	FOX	TOM	5W		

Date: Mon, 6 Jan 2003 06:54:37 -0600
From: "dan wanchic" <wa8vzq@cloudnet.com>
To: <qrp-1@Lehigh.EDU>
Subject: [144186] Re: Noisy Antennas/DEAF VERTICAL?
Message-ID: <001001c2b582\$fbfc7f40\$3d6dbcd1@wa8vzq>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

It is common practice where I work to place a 47K ohm resistor in parallel with all VHF/UHF antennas for that exact reason, draining static. Since unterminated antennas can generate a lot of noise under the right conditions it can make a big reduction in received noise if you have one or more unterminated antennas.

There is no reason to put the resistor directly across the antenna. We use connect a T coax connector to the transmitter or receiver. The resistor, soldered into an empty connector, goes into one side of the to the T. The antenna connects to the other side.

Dan
St. Cloud, MN

-- -- -- -- -- WA8VZQ -- Since 1967 -- -- -- -- --
Federal Aviation Administration -- -- Electronics Technician
ex-Nuclear Emergency Search Team (NEST) 1977 - 1981
-- -- -- NEST Three Mile Island Response Team -- -- --
-- -- ex-HFer @ ACA-15, WAR-46, KAL-24, KZ5VZ -- -- -- --
My clock battery is dead - Ignore the date & time of this note

Date: Mon, 6 Jan 2003 07:00:33 -0700 (MST)
From: "Karl F. Larsen" <k5di@zianet.com>
To: Bill ROWLETT <kc4atu@yahoo.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [144187] Re: 10 Meters is HOT!
Message-ID: <Pine.LNX.4.44.0301060647270.1300-1000000@bucket.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Bill, yes the beam is a real asset when the other guys are

all using amps. I was amazed by how many KW stations were on the band. I worked several and they were kind of embarrassed when I mentioned I was using 5 watts. A station in Maine dropped his power to around 5 watts and dropped to 59+.

On Sun, 5 Jan 2003, Bill ROWLETT wrote:

> Not bad Karl, but the TH6 at 60 feet does help. Have
> over 100 countries on 10 meters with 3 to 5 watts out
> to the indoor 20 meter dipole feed with 300ohm. So, on
> 10, it does not take much.
>
> 73 and may you work all heard.
>
> Bill, kc4atu
>
> -----
> Do you Yahoo!?
> Yahoo! Mail Plus - Powerful. Affordable. Sign up now.
> <http://mailplus.yahoo.com>
>

--

- Karl Larsen k5di Las Cruces,NM Az ScQRPions -

Date: Mon, 6 Jan 2003 09:24:21 -0500
From: "Jim Stamper" <jstamper@shentel.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [144188] Semi-Happy Dance
Message-ID: <002d01c2b58f\$505edc20\$c85a6fcc@jim>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

After many delays (including slicing open a finger I usually use to hold the soldering iron) I finished and hooked up my Christmas Rock Mite late last night. The receiver is very sensitive--wasn't expecting that. Hear some broadcast stations but no great problem to copy CW through them.

Answered a CQ. QSB was terrible and I'm not sure whether he heard me or not. Got on again this morning and called CQ a bunch but no joy. I am radiating. At least I am coming in strong on my "regular" rig with no

antenna on it.

After calling CQ a bit--powered by 8 AA batteries--I touched the 2N2222 and it was really hot. I had wondered why you guys were having all the discussion of heat sinks and now I know.

73,
jim-
KG4LDY

Date: Mon, 6 Jan 2003 09:27:33 -0500
From: palmer_t <ThomasPalmer@colliergov.net>
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>
Subject: [144189] Re: [OT] You've Got ... QSLs (Part 2) or QSL Via Buro (long)
Message-ID: <F833DC5C03BCB34EBE579DC8DC130447815E92@CWW1.bcc.colliergov.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

QSL bureau volunteers, "Card Checkers" and "Volunteer Examiners" should be commended over and over for the significant amount of volunteer works they perform. Those considerate, hard working folks do more then is too often not fully appreciated by some hams.

Tom, N1TP
Naples, Florida

Date: Mon, 6 Jan 2003 09:52:48 -0600
From: "res075cz" <res075cz@gte.net>
To: <qrp-1@lehigh.edu>
Subject: [144190] IC-706 Power Cable
Message-ID: <01c801c2b59b\$aa498b20\$0f972804@dslverizon.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I just chatted with Jim Smith at Burghardt and found that a spare power cable for the IC-706 will cost me close to 40 dollars delivered. Wow! I can make my own if I can find a plug. Anybody know a source?

73 de Jim, K5ROV...

James (Jim) Parsons, K5ROV, CMSgt (E-9), USAF, Ret., San Angelo, TX
Ham for over 60 yrs. 90% CW
k5rov@arrl.net, QCWA, ARCI, Fists, ARRL, ARMS.
EX: W1RLA, K5FBB, K4FEO, SVOWN (CRETE), SVOWN (RHODES),
DL4NC, DL4JP, KA2FC (JAPAN), KA2JP (JAPAN).
JOHN 3:16

Date: Mon, 6 Jan 2003 08:40:03 -0800
From: "larry hess" <hessls@csi.com>
To: <qrp-l@lehigh.edu>
Subject: [144191] Re: Loop Question
Message-ID: <000301c2b5a2\$6af27840\$1b03c0d8@m0u2v9>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thanks everyone for the great response to my question both on and off the list. Special thanks to N5IB and WB2VUO who took the time to run antenna plots.
Cheers..Larry W8GTT

Date: Mon, 6 Jan 2003 08:55:51 -0800
From: "Ian Wilson" <ianmwilson@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [144192] Re: VFO pulling
Message-ID: <000e01c2b5a4\$78983460\$0b02a8c0@WorkGroup>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thanks for all who replied. The most frequent suggested cause was RF from the output stage feeding back into the VFO. This turns out to be the problem - I put the VFO in a screened enclosure, and the problem has gone away.

72 de ian, k3imw/6

Date: Mon, 6 Jan 2003 09:09:08 -0800
From: Mark Schoonover <schoon@amgt.com>
To: "'ARDUJENSKI@aol.com'" <ARDUJENSKI@aol.com>,
Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [144193] RE: Maybe an endfed 132 ft antenna?
Message-ID: <BF889CEBEFD2D511B993009027F60ABE251C3F@AG-JASMINE-NT4>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

I'm seriously considering this exact setup at my place. I'm currently running an 88' doublet, with a 100' run of ladder line. It seems real touchy to tune, plus I'm just under 90 degrees as an inverted V at 40'... The antenna works, I'm just thinking there's something better, easier to use... Always worth a try...

72

.mark

Date: Fri, 03 Jan 2003 09:03:59 -0600 (CST)
From: "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Cc: Brian Buydens <brian.buydens@usask.ca>
Subject: [144194] Nor'Easter Question
Message-ID: <Pine.OSF.4.44.0301030901500.229633-100000@duke.usask.ca>
MIME-version: 1.0
Content-type: TEXT/PLAIN; charset=US-ASCII

Yesterday I bought a metal container full of "Fisherman's Friend". I think the Nor'Easter (surface mount model) would fit in it if I rounded the corners of the circuit board. Have other people found they need to do this to get the board in the omnipresent Altoids tin?

Brian

Brian Buydens
Veterinary Electronic Data Specialist

Computing Services, University of Saskatchewan
email: Brian.Buydens@usask.ca
http://duke.usask.ca/~buydens
VE5RDV

I am a proud citizen of "Soviet Canuckistan"

Date: Mon, 6 Jan 2003 10:11:43 -0800
From: "Bob Tellefsen" <n6wg@earthlink.net>
To: <qrp-1@lehigh.edu>
Subject: [144195] RE: Antenna question; leakage; binocular cores
Message-ID: <MABBJOEABOILMKCJCLFCAENKDOAA.n6wg@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Nick
If you put two stacks of toroids side by side, you can
create a binocular core of almost any size.
I do this for my matching transformers for 160m receiving
loops.
73, Bob N6WG

Date: Mon, 6 Jan 2003 12:43:05 -0600
From: "pschweit" <pschweit@mninter.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [144196] recieve only antenna
Message-ID: <001601c2b5b3\$759d1f00\$59e8add1@oemcomputer>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

i need some design information on a recieve only antenna i recall seeing.

it consisted of a terminated length of twin lead that was matched to coaxial

feed line.

the antenna was somewhat directional and is intended to be placed directly on the ground.

it was very low noise and intended for 80 and 160 meters.

any help anyone?

DE KA0PGQ
rob

Date: Mon, 6 Jan 2003 10:53:56 -0800 (PST)
From: Lloyd Lachow <llachow@yahoo.com>
To: a low-energy group <qrp-l@lehigh.edu>, hoglund@wfu.edu,
n4qa@hotmail.com
Cc: "Li'l Piggies" <fpqrp-l@mpna.com>
Subject: [144197] RMFF: The Five Million-Point QSO
Message-ID: <20030106185356.11684.qmail@web41008.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Well, I couldn't even try the 40M burst on Friday night due to my schedule, and I couldn't get on the 20M Saturday burst until 1600Z or so.

My 40M RM is souped up with a 2N3053, and a labor-saving RMK chip, but the 20 is stock. For an antler, I'm tuning a ~200' piece o' wahr with a Fuchs Tuner. After many CQs, I was heard at 1634 by Bill, N4QA. Bill and I go back to last Spring, when I re-entered the hobby, and he was my e-elmer through the process of fitting my HW-7 with some kind of keyer.

We chatted for four minutes, with low sigs and lots of QRM, though we both exchanged courteous 559s. I asked if he was in his car, and he said he was, but wasn't driving (that's what you said, right, Bill?). We also noted that we were both running about 250 mW.

Several hours later, I was looking over the rules for the FF, and saw that I had caught one of the tagged fish! (Good thing it was catch-and-release!) And today, I see that you can use both the xtal mult

as well as the special station mult! Wiiiigiii!

So, according to Zipmath, the distance was 262 mi.,
times four minutes = 1048, times xtal mult (5) = 5240,
times SS mult (1K) = 5,240,000. I know that's not even
close to the top score this year, but what a great
contest, where such a thing is possible! C'est merveilleux!

=====

73, 72 es oo, Lloyd, K3ESE

K1 # 00379 - 20/40M Rock-Mites - Hunk o' Wahr

ARRL - ARS #1301 - FISTS #8774

FPqrp #476 - QRParci #11147

QRP-L #2415 - SOC #530

Fun = Skill / Power

dit dididit dit

Do you Yahoo!?

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<http://mailplus.yahoo.com>

Date: Mon, 06 Jan 2003 14:18:05 -0500

From: W2AGN <w2agn@w2agn.net>

To: llachow@yahoo.com,

Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [144198] Re: RMFF: The Five Million-Point QSO

Message-ID: <3E19901D.23559.B9520E9@localhost>

MIME-version: 1.0

Content-type: text/plain; charset=US-ASCII

Content-transfer-encoding: 7BIT

Content-description: Mail message body

On 6 Jan 2003 at 10:53, Lloyd Lachow wrote:

>

> So, according to Zipmath, the distance was 262 mi.,

> times four minutes = 1048, times xtal mult (5) = 5240,

> times SS mult (1K) = 5,240,000. I know that's not even

> close to the top score this year, but what a great

> contest, where such a thing is possible! C'est merveilleux!

>

> =====

> 73, 72 es oo, Lloyd, K3ESE

Do you one better. Worked Doc, K0EVZ on 20M.

1544-1548 K0EVZ 58506 1386 RM DOC 1386X4X5X1000 = 27,720,000

A 27M+ QSO!

+-----+ John L. Sielke
|W||2||A||G||N| http://www.w2agn.net [UPDATED]
+-----+ Ex-K3HLU,TF2WKT,W7JEF,W4MPC,N4JS

Date: Mon, 6 Jan 2003 14:54:28 -0500
From: "Bob Schreibmaier" <k3ph@ptd.net>
To: <qrp-l@lehigh.edu>
Subject: [144199] Re: Maybe an endfed 132 ft antenna?
Message-ID: <001101c2b5bd\$6c07eba0\$6800a8c0@msns.leh.ptd.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> If you want to try a low loss inexpensive antenna have you thought about
the
> advantages of an end-fed 132ft wire? You can run it:
> ---horizontal
> ---inverted-L
> ---inverted-U or vee
>
> What is magical about this length is that is is close to multiple of 1/2wl
on
> most bands with a resulting impedance of about 1000 ohms on all bands (80m
> and up) making the ground losses relatively low.

One of my friends used to use exactly this arrangement from a top floor
apartment. It worked very well, indeed. He tuned the whole thing with
a simple L network. At QRP level, a broadcast variable was sufficient.
I suspect one would need a wider-spaced capacitor for greater power
levels.

72/73,
Bob

+-----+
| Bob Schreibmaier K3PH | E-mail: k3ph@ptd.net |
| Kresgeville, PA 18333 | http://home.ptd.net/~k3ph |
+-----+

Date: Mon, 06 Jan 2003 14:19:03 -0600
From: Jim Gelbort <jamesgelbort@worldnet.att.net>
To: qrp-1@Lehigh.EDU
Subject: [144200] Re: Nor'Easter Question
Message-ID: <5.1.0.14.0.20030106141718.01eec020@ipostoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Brian,

Yes, but very slightly. Respect the corner mounting holes.

73,
Jim N9WW

Date: Mon, 6 Jan 2003 12:44:03 -0800
From: "Trevor Jacobs" <kg6cyn@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [144201] Trip to WI
Message-ID: <006301c2b5c4\$59b8dca0\$cabdb2d1@tjacobs>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Gang,

Once again I take that fearless trek into the frigid North! ;-) I'll be in Middleton, WI leaving today from Burbank and returning on the 17th. I'll have one of the Experimenter's DDS Signal Generator's with me if any locals would like to check it out. Also, I'm planning on operating from the hotel with a 100' Center Fed Zep if I can get a room in the same part of the building I did last time. Should make the FOX Hunts interresting. Also, will be handing out my Flying Pigs number for anyone that needs it. Take care...

73's Trev KG6CYN
<http://home.earthlink.net/~kg6cyn>
<http://www.qsl.net/kg6cyn>

Date: Mon, 6 Jan 2003 15:41:54 -5
From: "Bill Kelsey - N8ET - Kanga US" <kanga@bright.net>
To: qrp-1@Lehigh.EDU
Subject: [144202] New book by W7ZOI, KK7B, and W7PUA
Message-ID: <200301062049.h06Kn7KB005407@rhombus.bright.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

W7ZOI, KK7B, and W7PUA have been working on a new book the past couple of years, and I can finally say something about it. The book - "Experimental Methods in RF Design" - will be available in mid February. Earlier today I received the first official announcement about it from the ARRL. They have given me permission to put a copy of their flier on my web site. The URL directly to the flier (1.2 meg PDF file) is:

<http://www.bright.net/~kanga/kanga/emrfd.pdf>

The book is approximately 528 pages, and includes a CD with design software, DSP firmware listings, and supplementary articles.

The Contents include:

- Basic Investigations in Electronics
- Chapters on Amplifiers, Filters, Oscillators, and Mixers
- Superhetrodyne Transmitters and Receivers
- Measurement Equipment
- Direct Conversion Receivers
- Phasing Receivers and Transmitters
- DSP Components
- DSP Applications in Communications
- Field Operation, Portable Gear, and Integrated Stations

This book has been referred to by the authors as SoSSD - Son of Solid State Design, and looks to be exactly that.

The cost of the book is \$49.95. I will cover the cost of shipping via Priority Mail (US Orders only) for any orders I receive prior to Feb. 1. If I receive 100 orders prior to Feb 1 I will knock another 5% off the price and include a 5% refund with the book when it is shipped.

I can take orders via US Mail, e-mail (preferred method), or telephone (leave info on the answering machine). Later this week I will be setting up facilities on my web site to take orders there through PayPal. I can do VISA or MC directly.

The ARRL tells me that my order was the first for the new book. I figure QRP-L subscribers will all want it as soon as it is available, so I will do my best to make it available ASAP. They are estimating a mid February ship date.

Also - For orders received prior to Feb 1 I will cover the shipping on any of the following QRP related books:

Solid State Design

QRP Power

W1FB's QRP Notebook

Low Power Communications.

In fact - I will cover shipping on ANY ARRL book or CD ordered prior to Feb 1 and I will knock 5% off the price if I get more than the 100 orders mentioned above!

Hope to hear from a lot of you! I will be gone most of the next 24 hours, so will not be able to respond to questions for the next day or so.

73 - Bill - N8ET

Kanga US

kanga@bright.net

<http://www.bright.net/~kanga/>

419-423-4604

Date: Mon, 06 Jan 2003 21:19:48 +0000

From: Larry Cahoon <lejek@erols.com>

To: qrp-l@lehigh.edu

Subject: [144203] IL Falls - All Counties QRP

Message-ID: <5.1.0.14.0.20030106211447.0279c2c0@pop.erols.com>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

Another state fell today.

A QSO with Jim, N9JF/M, from Cass County IL while running the K1 at 500 mWatts finished off the state. Average power to get an IL county came in at 800 mWatts.

Now only 41 counties in 15 states to go.

I started working on the counties QRP about six months after I started working them the second time around. As I tell my county hunter friends - I never let running QRP get in the way of getting a county. Now I need only one county for second time and 41 more to do it all QRP. How low can

I get that QRP count before I get that last one for second time?????

73 de Larry.....WD3P in MD
<http://www.wd3p.net/>

Date: Mon, 6 Jan 2003 17:03:31 -0500
From: "Jim Stamper" <jstamper@shentel.net>
To: "Chuck Carpenter" <w5usj@9plus.net>,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [144204] Re: Semi-Happy Dance
Message-ID: <000e01c2b5cf\$7551ad60\$87616fcc@jim>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thanks, first of all, to Chuck Carpenter who correctly (and tactfully) suggested that if the 2N2222 in a Rock Mite burns your finger the VSWR is probably too high. A few minutes with the Autek corrected that problem.

Answered a CQ on 20 meters from Darron, WA5TCZ, in Greenwell Springs, LA, which is, according to the zip distance calculator, 914 miles from me in Woodstock, VA. He is also running a Rock Mite so the first QSO was RM-RM. He says he is running 200 mw. I have no idea what I am running. He gave me a 229. I am happy with that.

It was like operating back in my rock bound novice days (1956) except there are no chirps. About five stations on or very near my frequency. Felt guilty about keying on an already crowded frequency but, in the immortal words of Tony Soprano, "Whaddya gonna do?"

Thank you Dave Benson!

73,
jim-
KG4LDY

Date: Mon, 06 Jan 2003 17:35:20 -0500
From: John Farler <jfarler@peoplepc.com>
To: pschweit@mninter.net
Cc: qrp-1 <qrp-1@Lehigh.EDU>

Subject: [144205] Re: recieve only antenna
Message-ID: <3E1A04A8.A4D9A777@peoplepc.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

What a coincidence....I had just finished leafing through
W1FB's Antenna Notebook when I read this....

HE recommended a full wavelength of twin lead or speaker
wire terminated with a 220 ohm 1 watt resistor, and fed
via rg58 or another 50 ohm coax through a 4 to 1 balun.
Says maximum response is off the terminated end laid in
a straight line on the ground.....

Says he used a velocity factor of 0.75 for this type of
wire in calculating the length.

That's it...can scan page if you wish, but it's that simple.
Please let me or the group know how it works.

Good luck...

73, John Farler
K4AVX
k4avx@arrl.net

pschweit wrote:

>
> i need some design information on a recieve only antenna i recall seeing.
>
> it consisted of a terminated length of twin lead that was matched to coaxial
> feed line.
>
> the antenna was somewhat directional and is intended to be placed directly
> on the ground.
>
> it was very low noise and intended for 80 and 160 meters.
>
> any help anyone?
>
> DE KA0PGQ
> rob

Date: Mon, 06 Jan 2003 14:37:47 -0800
From: "Richard Johnson" <richard_johnson@credence.com>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [144206] 1SV149
Message-ID: <3E1A053A.A5992AE1@credence.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

<greetings>

I have not been able to find a source of 1SV149 tuning diodes.
Does any one know where a guy can buy small quantities?

cheers,
rich

Date: Mon, 6 Jan 2003 17:41:56 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@neale.gpfn.sk.ca>,
Low Power Group <qrp-1@LeHigh.EDU>
Subject: [144207] Fox - Winter Fox Hunt Teams Results.
Message-ID: <Pine.LNX.4.33.0301061734570.19314-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hunt #18 - KV2X -

Burbank Wrecking Crew - 58	Cheeseheads - 70
----------------------------	------------------

Michael - K6MMC	Jerry - N9AW
Todd - AG0T *	Jim - WA9TZE *
Don - KC2CK	Lon - W9XU *
Woody - WD9F	Rick - NK9G
Trev - KG6CYN	Glenn - WE9K *

NE-TX Tornados - 81	p-Shooters - 37
---------------------	-----------------

Chuck - W5USJ *	Chuck - K7Q0
Bill - K5JHP * Clean	Gary - NQ7T
Don - K5DW * Sweep	Jim - KC1FB
Doc - W5TB *	Wayne - W5KDJ *
George - W5YR *	Tony - KB9YIG

Raiders of the Lost RF - 63	Swamp Rats - 76
-----------------------------	-----------------

Dan - VE6EX *
Earl - VA6RF
Fred - VE3FAL
Robert - VE6JAZ
Bruce - VE5RC

Larry - N2WW *
ET - N1FN * Clean
Paul - K4FB * Sweep
Doc - K0EVZ *
Tom - N1TP *

K1 K9s - 52

Cajun Thunder - 60

Lloyd - K3ESE *
John - K8HJ *
Ralph - KD1R
Joe - W2RBA
Alan - N3BJ *

Wayne - K5EOA *
Jim - N5IB
Vern - AA50 *
Wayne - N5YFC
Tom - AC5JH *

Great Lakers - 44

Underdogs - 72

Mark - K2Q0
Tom - KV2X *
Al - K2ZN *
Bill - K2TER
Jeff - VA3JFF

Dan - N4ROA *
Dave - W0CH *
Ron - KI0II *
Randy - K7TQ
Art - KB7WW *

Aluminum Kings - 59

Dust Devils - 56

Bob - N4BP
Jim - N0UR *
Al - K0FRP
Pat - K0PC *
Todd - N9NE

George - KR5C *
Martin - N6LIF *
Eric - NM5M
Dale - K5SR *
Lew - N5ZE *

Loco-motives - 41

Frank - K2PQ
Jack - K5FSE *
Jason - N8XE
Mike - VA6MJT
Wayne - K9DI

..please send any changes and/or corrections directly to me...thank
you...

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - QRP Borg#1 - Whiner#10 -
- VE5QRP SOC#11 - VE5RC SOC#12 - oo#148 - K2#2032 - COG#15 -
"QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

Date: Mon, 6 Jan 2003 17:50:39 -0600
From: "Mike Duke, K5XU" <k5xu@jam.rr.com>
To: "qrp list" <qrp-l@lehigh.edu>
Subject: [144208] Any Cushcraft AWW3 Users Out there
Message-ID: <00d301c2b5de\$6ca4c4e0\$32d4a418@jam.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

If so, I'd like to learn your thoughts about this antenna, and how you have it installed.

For the curious, the AWW3 is the warc band trap vertical.

Mike Duke, K5XU
American Council of Blind Radio Amateurs

Date: Mon, 6 Jan 2003 17:48:21 -0600
From: "Stuart Rohre" <rohre@arlut.utexas.edu>
To: "larry hess" <hessls@csi.com>, <qrp-l@Lehigh.EDU>
Subject: [144209] loop feed change
Message-ID: <003c01c2b5de\$18352b20\$4e100a0a@rohredt2000>

Larry, if the loop is square, very little change.
Feeding in a given corner causes a slight offset of the pattern, but not enough to make a difference in the signals strength at this height of the loop you have. We have modeled our 20 foot high large Field Day loops extensively, and noted the minor effect of what corner feed we use.
72,
Stuart K5KVH

Date: Mon, 6 Jan 2003 18:53:11 -0500
From: "Bob Schreibmaier" <k3ph@ptd.net>
To: <qrp-1@Lehigh.EDU>
Subject: [144210] Re: Maybe an endfed 132 ft antenna?
Message-ID: <002901c2b5de\$c5745d60\$6800a8c0@msns.leh.ptd.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

>> If you want to try a low loss inexpensive antenna have you thought about
the
>> advantages of an end-fed 132ft wire? You can run it:
>> ---horizontal
>> ---inverted-L
>> ---inverted-U or vee
>>
>> What is magical about this length is that is is close to multiple of
1/2w1
on
>> most bands with a resulting impedance of about 1000 ohms on all bands
(80m
>> and up) making the ground losses relatively low.

>One of my friends used to use exactly this arrangement from a top floor
>apartment. It worked very well, indeed. He tuned the whole thing with
>a simple L network. At QRP level, a broadcast variable was sufficient.
>I suspect one would need a wider-spaced capacitor for greater power
>levels.

Several people have asked about radials/counterpoise, so I thought
I might respond to the reflector. As I recall, he ran a counterpoise
around the walls of the room, consisting of wires of 33 feet, 16 feet,
and 8 feet. This was a quarter wave on 40 meters (three quarters on
15), 20 meters, and 10 meters, respectively. Apparently, there
wasn't a problem with RF on 80 meters... not sure where he would
have put a quarter wave counterpoise in the apartment. 8^)

72/73,
Bob
K3PH

+-----+
| Bob Schreibmaier K3PH | E-mail: k3ph@ptd.net |

| Kresgeville, PA 18333 | <http://home.ptd.net/~k3ph> |
+-----+

End of QRP-L Digest 2792

